

S  
350.864  
H3 a  
1970



STATE DOCUMENTS

JUN 7 1971

# ANALYSIS OF CONTRACTS AWARDED CALENDAR YEAR 1970

PREPARED BY THE  
MONTANA STATE HIGHWAY COMMISSION  
PLANNING SURVEY SECTION

IN COOPERATION WITH THE  
U. S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION



CONTRACT ANALYSES  
Calendar Year 1970

FOREWORD

The attached tabulations have been prepared from the Detailed Estimate and Contract Award sheet for all contracts awarded during the calendar year 1970. A brief explanation of each of the following tables is provided to help in the interpretation of the figures and to lessen the possibility of erroneous conclusions.

Table 1 - Summary of New and Reconstructed Roadway Only, by County and Financial District.

This table is intended to inform the user of how many actual miles of roadway were let to contract and the costs involved. It includes all items pertinent to the same section of roadway except structures.

Table 1A - Summary of Total Amounts Awarded by County and Financial District.

This table is a total of all miles and costs involved regardless of the type of project. Besides roadway costs, it includes signing, lighting, fencing and bridge projects.

Table 2 - Summary of Roadway Mileage Awarded by Systems.

The table involves the same type of construction as Table 1. Table 2, however, provides a cost per mile figure for the different systems and also provides a simple analysis of benefits by inclusion of the "cost per annual vehicle mile."

Table 3-3a-3c - Summary of Type of Construction.

A separate table has been prepared for each Federal Aid System with all projects including signing and Fencing classified into 10 different categories. The purpose of this table is to give a general indication of what type of construction is responsible for the major share of monies spent. For example, note the bulk of Interstate monies is spent for New Construction, whereas, the greater share for Primary and Secondary is spent for Reconstruction.



Table 4-4a-4c - Summary by Surface Type by Systems.

These tables indicate the average cost per mile of various items included in a completed roadway by type of surfacing. Caution should be exercised in using the average cost per mile data due to the small sample involved for some cost items.

Table 5 - Summary of Roadway Mileage Awarded by Number of Traffic Lanes.

This table deals with the same miles and costs involved in Tables 1 and 2.

Table 6-6a-6c-6d - Summary of Structures by Type.

These tables summarize the number of structures let by type and also provide a cost per square foot, by type of structure.

Table 7-7a-7c - Summary of Roadway Mileage Awarded by ADT.

The table involves only actual roadway constructed, as Tables 1, 2 and 5 and provides a relationship between the volumes of traffic, miles constructed and costs. It is possible to further develop this table to obtain a road user benefit on a vehicle mile basis.

Table 8 - Summary of Contracted and Non-contracted Costs by System.

Some items, such as railroad flagging, roadway materials, detours and traffic control devices are considered non-contract items in certain instances. The costs of such items are included in the Detailed Estimate, but not in the Contract Award Amount. This table tabulates the two costs for the users information.



KUDU

1161, 471

ITEMS	COST
396,05	717,84
1,337,80	2,118,33
447,60	5,350,44
21,84,12	64,19,32
57,21,88	1,15,45,86
475,18	1,20,76,84
416,25	8,396,03
574,32	2,118,33
1,1,08,5,21	5,350,44
244,52	64,19,32
435,11	1,15,45,86
1,24,45,55	1,20,76,84
526,81	8,396,03
21,37,48	2,118,33
8,247,91	5,350,44
535,12	64,19,32
8,847,05	1,15,45,86





STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1970

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAY. REFER TO TABLE 1A FOR THE TOTAL AMOUNTS OF CONTRACTS AWARDED  
MAY 12, 1971

TABLE 1

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM MILES	PRIMARY SYSTEM MILES	SECONDARY SYSTEM MILES	OTHER SYSTEMS MILES	ALL SYSTEMS MILES	COST
FD #11	17,930	7,914,727	1,419,564	746,709	28,589	10,079,080
ROSEBUD FD #12	5,883	23,678,394	51,557	61,832	147,744	34,565,651
TOTAL	23,813	31,593,121	1,471,121	1,358,541	148,333	44,644,731



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TOTAL AMOUNTS AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1970

TABLE 1A

[illegible]



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TOTAL AMOUNTS AWARDED  
BY COUNTY AND FINANCIAL DISTRICT  
DURING CALENDAR YEAR 1970  
TABLE 1A

COUNTY AND FINANCIAL DISTRICT	INTERSTATE SYSTEM		PRIMARY SYSTEM		SECONDARY SYSTEM		OTHER SYSTEMS		ALL SYSTEMS	
	MILES	COST	MILES	COST	MILES	COST	MILES	COST	MILES	COST
FINANCIAL DISTRICT										
MINERAL	21.687	9,873,523				8,771			21.687	9,882,294
MISSOULA		166,925	5.302	722,202	.366	61,834			5.688	950,961
POWELL		19,346								19,348
RAVALLI					14,167	.600			.600	60,403
SANDERS						3,582			3,582	79,100
FD #08	36.878	10,083,252	5.302	736,369	4.468	908,548			46.643	11,728,169
BEAVERHEAD										
DEER LODGE	15.943	2,657,474	1.189	408,810					17.132	3,066,284
HADISON		23,294								23,294
SILVER BOW			12.052	324,053					12.052	324,053
FD #09	15.943	2,680,768	7.831	326,053		31,365			7.831	427,418
			21.072	1,128,916		31,365			37.015	3,184,104
GALLATIN										
PARK		61,713								61,713
SWEET GRASS	13.270	71,869			6.676	834,603			6.676	906,472
FD #10	13.270	5,919,445			25.600	10,450			38.870	5,736,413
					32.276	845,153			45.546	6,764,598
BIG HORN										
CARBON	28.968	5,417,109			1.041	104,858			30.009	5,521,967
STILLWATER	12.859	7,633,460	9.346	1,624,448	39.700	25,544			45.046	1,643,992
YELLOWSTONE	18.228	3,241,471	.675	131,915	21.700	20,302			35.234	7,785,677
FD #11	58.085	16,592,040	98.205	501,304	1.800	1,712,547			113.263	5,762,322
			106.226	2,257,667	64.241	1,870,251			228.552	20,719,958
CARTER										
FALLON			11.999	5,619					11.999	5,619
POWDER RIVER			12.186	904,366					12.186	904,366
ROSEBUD					10.507	868,215			10.507	868,215
FD #12	6.883	1,393,024	26.902	917,298	17.326	229,572			21.526	2,323,909
			26.902	917,298	28.433	1,797,787			62.218	4,108,109
TOTAL	213.454	51,341,315	232.813	10,049,915	231.589	10,225,542	1.057	65,747	678.913	71,682,515



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY SYSTEMS  
DURING CALENDAR YEAR 1970

THIS TABLE SUMMARIZES ONLY NEW OR RECONSTRUCTED ROADWAYS  
TABLE 2

SYSTEM	MILEAGE	TOTAL COST	COST PER MILE	ANNUAL VEHICLE MILES	COST PER ANNUAL VEHICLE MILE
					MAY 12, 1971
RURAL					
INTERSTATE RURAL	54.355	23,678,394	435,624	39,374,740	00.601
PRIMARY RURAL	29.930	4,685,391	156,544	11,427,420	00.410
SECONDARY RURAL	60.388	5,258,215	87,073	3,196,670	01.644
OTHER					00.000
SUBTOTAL RURAL	144.673	33,622,000	232,399	53,998,830	00.622
MUNICIPAL					
INTERSTATE MUNICIPAL					
PRIMARY MUNICIPAL	1.627	602,246	370,157	4,132,165	00.000
SECONDARY MUNICIPAL	1.444	359,385	248,881	452,235	00.145
OTHER					00.794
SUBTOTAL MUNICIPAL	3.071	961,631	313,132	4,584,400	00.000
TOTAL BY SYSTEM					00.209
INTERSTATE					
PRIMARY	54.355	23,678,394	435,624	39,374,740	00.601
SECONDARY	31.557	5,287,637	167,558	15,559,585	00.339
OTHER	61.832	5,617,600	90,852	3,648,905	01.539
GRAND TOTAL	147.744	34,583,631	234,078	58,583,230	00.000
					00.590





STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1970

BY SYSTEM  
TABLE 3

MAY 12, 1971

TYPE OF CONSTRUCTION	-----INTERSTATE----- MILES	COST
RURAL		
NEW CONSTRUCTION	34.580	19,710,940
RECONSTRUCTION		
ADD TWO LANES	19.775	3,967,454
MAJOR STRUCTURES		7,285,510
RESURFACE		
STAGE CONSTRUCTION	128.808	18,696,581
TRAFFIC CONTROL, SEEDING & FENCING	29.465	561,787
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	.551	1,046,961
TOTAL		51,269,233
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION	.275	29,021
TRAFFIC CONTROL, SEEDING & FENCING		43,061
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		72,082
ALL CONSTRUCTION		
NEW CONSTRUCTION	34.580	19,710,940
RECONSTRUCTION		
ADD TWO LANES	19.775	3,967,454
MAJOR STRUCTURES		7,285,510
RESURFACE		
STAGE CONSTRUCTION	129.083	18,725,602
TRAFFIC CONTROL, SEEDING & FENCING	29.465	604,848
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	.551	1,046,961
TOTAL		51,341,315



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1970  
BY SYSTEM  
TABLE 3A

MAY 12, 1971

TYPE OF CONSTRUCTION	PRIMARY I	
	MILES	COST
RURAL		
NEW CONSTRUCTION	.386	48,986
RECONSTRUCTION	29.544	4,636,405
ADD TWO LANES		
MAJOR STRUCTURES		1,466,121
RESURFACE	59.426	1,632,638
STAGE CONSTRUCTION	.650	91,999
TRAFFIC CONTROL, SEEDING & FENCING	105.628	235,081
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		8,111,230
MUNICIPAL		
NEW CONSTRUCTION	.289	82,929
RECONSTRUCTION	1.338	519,317
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE	7.605	279,723
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING	27.379	894,680
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	.568	162,036
TOTAL		1,938,685
ALL CONSTRUCTION		
NEW CONSTRUCTION	.675	131,915
RECONSTRUCTION	30.882	5,155,722
ADD TWO LANES		
MAJOR STRUCTURES		1,466,121
RESURFACE	67.031	1,912,361
STAGE CONSTRUCTION	.650	91,999
TRAFFIC CONTROL, SEEDING & FENCING	133.007	1,129,761
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	.568	162,036
TOTAL		10,049,915



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1970  
BY SYSTEM  
TABLE 3C

MAY 12, 1971

TYPE OF CONSTRUCTION	-----SECONDARY-----	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION	60.388	5,258,215
ADD TWO LANES		
MAJOR STRUCTURES		1,398,358
RESURFACE	43.079	875,683
STAGE CONSTRUCTION	22.586	2,044,896
TRAFFIC CONTROL, SEEDING & FENCING	86.897	129,316
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	15.058	98,044
TOTAL		9,804,512
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION	1.444	359,385
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE	.467	24,350
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING	1.670	37,295
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		421,030
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION	61.832	5,617,600
ADD TWO LANES		
MAJOR STRUCTURES		1,398,358
RESURFACE	43.546	900,033
STAGE CONSTRUCTION	22.586	2,044,896
TRAFFIC CONTROL, SEEDING & FENCING	88.567	166,611
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER	15.058	98,044
TOTAL		10,225,542



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF TYPE OF CONSTRUCTION  
DURING CALENDAR YEAR 1970  
BY SYSTEM  
TABLE 3D

MAY 12, 1971

TYPE OF CONSTRUCTION	<u>OTHER</u>	
	MILES	COST
RURAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE		
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		
MUNICIPAL		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE	1.057	65,747
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		65,747
ALL CONSTRUCTION		
NEW CONSTRUCTION		
RECONSTRUCTION		
ADD TWO LANES		
MAJOR STRUCTURES		
RESURFACE	1.057	65,747
STAGE CONSTRUCTION		
TRAFFIC CONTROL, SEEDING & FENCING		
REST AREA, WEIGH STN & SENIC OVERLOOK		
WIDENING ROADWAY		
OTHER		
TOTAL		65,747





STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1970  
INTERSTATE SYSTEM

TABLE 4

MAY 12, 1971

COST ITEM		STAGE CONSTR.	SURFACE TYPE BITUM. MIX	CONCRETE	ALL CONST.	MISC. ITEMS
GRADING	MILES	68.639	104.397		173.036	10.953
	COST	7,025,653	12,853,100		19,878,753	218,168
	COST/MILE	102,356	123,117		114,882	19,918
DRAINAGE	MILES	68.639	98.110		166.749	
	COST	2,683,992	2,461,246		5,145,238	27,204
	COST/MILE	39,103	25,086		30,856	
FOUNDATION	MILES	58.234	104.397		162.631	
	COST	353,051	6,918,039		7,271,090	
	COST/MILE	6,062	66,266		44,709	
SURFACING	MILES	64.558	104.397		168.955	
	COST	147,850	7,666,129		7,813,979	
	COST/MILE	2,290	73,432		46,248	
RDSIDE DEVEL.	MILES		4.215		4.215	
	COST		12,047		12,047	
	COST/MILE		2,858		2,858	
EROSION CTL.	MILES	68.639	104.122		172.761	21.211
	COST	645,088	853,720		1,498,808	225,405
	COST/MILE	9,398	8,199		8,675	10,626
TRAFFIC CTL.	MILES	68.639	104.397		173.036	40.418
	COST	37,725	1,152,913		1,190,638	498,276
	COST/MILE	549	11,043		6,880	12,328
FENCING	MILES	68.639	65.542		134.181	
	COST	490,028	232,204		722,232	
	COST/MILE	7,139	3,542		5,382	
MISC.	MILES	12.968	6.519		19.487	
	COST	2,400	2,400		4,800	
	COST/MILE	185	368		246	
BRIDGES	SQ. FEET					483,589
	COST					7,285,510
	COST/SQ. FOOT					15.065
ALL ITEMS	MILES	68.639	104.397		173.036	40.418
	COST	11,385,787	32,151,798		43,537,585	8,254,563
	COST/MILE	165,879	307,976		251,609	204,229



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1970  
PRIMARY SYSTEM

MAY 12, 1971

TABLE 4A

COST ITEM		GRAVEL	SURFACE TYPE BITUM. MIX	CONCRETE	ALL CONST.	MISC. ITEMS
GRADING	MILES	.650	48.498		49.148	
	COST	21,444	1,128,657		1,150,101	
	COST/MILE	32,990	23,272		23,400	
DRAINAGE	MILES	.650	46.047		46.697	
	COST	6,347	844,947		851,294	
	COST/MILE	9,764	18,349		18,230	
FOUNDATION	MILES	.650	44.311		44.961	
	COST	59,491	1,411,724		1,471,215	
	COST/MILE	91,524	31,859		32,722	
SURFACING	MILES	.650	99.156		99.806	
	COST	2,344	3,428,453		3,430,797	
	COST/MILE	3,606	34,576		34,374	
EROSION CTL.	MILES	.650	43.068		43.718	2.625
	COST	3,528	271,005		274,533	4,294
	COST/MILE	5,427	6,292		6,279	1,635
TRAFFIC CTL.	MILES	.650	99.156		99.806	128.429
	COST	500	312,608		313,108	1,105,967
	COST/MILE	769	3,152		3,137	8,611
FENCING	MILES		3.378		3.378	4.537
	COST		16,933		16,933	12,600
	COST/MILE		5,012		5,012	2,777
MISC.	MILES		9.218		9.218	
	COST		6,000		6,000	6,900
	COST/MILE		650		650	
BRIDGES	SQ. FEET					80,556
	COST					1,466,121
	COST/SQ. FOOT					18.200
ALL ITEMS	MILES	.650	99.156		99.806	133.007
	COST	93,654	7,420,327		7,513,981	2,595,882
	COST/MILE	144,083	74,834		75,285	19,516



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY BY SURFACE TYPE  
DURING CALENDAR YEAR 1970  
SECONDARY SYSTEM

TABLE 4C

MAY 12, 1971

COST ITEM		SURFACE TYPE		ALL	MISC.
		GRAVEL	BITUM. MIX	CONST.	ITEMS
GRADING	MILES	14.309	81.889	96.198	
	COST	907,911	1,518,272	2,426,183	564
	COST/MILE	63,450	18,540	25,220	
DRAINAGE	MILES	14.309	61.832	76.141	
	COST	240,955	709,468	950,423	9,227
	COST/MILE	16,839	11,474	12,482	
FOUNDATION	MILES	13.686	76.418	90.104	
	COST	285,468	1,471,319	1,756,787	
	COST/MILE	20,858	19,253	19,497	
SURFACING	MILES	10.507	128.713	139.220	
	COST	8,239	2,934,028	2,942,267	
	COST/MILE	784	22,795	21,133	
ROADSIDE DEVEL.	MILES		.854	.854	
	COST		2,840	2,840	
	COST/MILE		3,325	3,325	
EROSION CTL.	MILES	14.309	67.491	81.800	.467
	COST	71,324	155,783	227,107	1,602
	COST/MILE	4,984	2,308	2,776	3,430
TRAFFIC CTL.	MILES	14.006	128.713	142.719	88.567
	COST	44,314	333,439	377,753	155,218
	COST/MILE	3,163	2,590	2,646	1,752
FENCING	MILES	10.204	12.354	22.558	
	COST	10,000	9,674	19,674	
	COST/MILE	980	783	872	
MISC.	MILES	10.204	28.678	38.882	
	COST	800	36,195	36,995	
	COST/MILE	78	1,262	951	
BRIDGES	SQ. FEET				54,596
	COST				1,398,358
	COST/SQ. FOOT				25.612
ALL ITEMS	MILES	14.309	128.713	143.022	88.567
	COST	1,569,011	7,171,018	8,740,029	1,564,969
	COST/MILE	109,652	55,713	61,109	17,669



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED BY NUMBER OF TRAFFIC LANES  
DURING CALENDAR YEAR 1970

TABLE 5

MAY 12, 1971

NO. LANES	MILES	COST	COST/MILE
INTERSTATE SYSTEM			
2	19.775	3,967,454	200,629
4	34.580	19,710,940	570,009
TOTAL	54.355	23,678,394	435,624
PRIMARY SYSTEM			
2	29.999	4,584,505	152,821
4	1.558	703,132	451,304
TOTAL	31.557	5,287,637	167,558
SECONDARY SYSTEM			
2	61.832	5,617,600	90,852
4			
TOTAL	61.832	5,617,600	90,852
ALL SYSTEMS			
2	111.606	14,169,559	126,960
4	36.138	20,414,072	564,892
TOTAL	147.744	34,583,631	234,078





STATE HIGHWAY COMMISSION OF MONTANA  
 PLANNING SURVEY SECTION  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1970

TABLE 6

INTERSTATE SYSTEM

MAY

12, 1971

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X220	16	50,532	762,618	15.091
COMP. S/C GIRD.	X071	2	12,616	170,628	13.524
	X771	5	65,110	1,380,076	21.196
CONC. PRESTR. GIRD.	X081	19	113,872	1,592,100	13.981
	X181	6	52,612	814,011	15.471
	X281	21	134,567	1,767,548	13.135
	X781	5	54,280	798,529	14.711
		74	483,589	7,285,510	15.065



STATE HIGHWAY COMMISSION OF MONTANA  
 PLANNING SURVEY SECTION  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1970

TABLE 6A

PRIMARY I SYSTEM

MAY

12, 1971

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. PRESTR. GIRD.	X081	12	80,556	1,466,121	18.200
		12	80,556	1,466,121	18.200



STATE HIGHWAY COMMISSION OF MONTANA  
 PLANNING SURVEY SECTION  
 SUMMARY OF STRUCTURES BY TYPE  
 DURING CALENDAR YEAR 1970

TABLE 6C

SECONDARY SYSTEM

MAY

12, 1971

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
COMP. S/C GIRD.	X071	1	30,924	1,018,056	32.921
CONC. PRESTR. GIRD.	X081	7	23,672	380,302	16.065
		8	54,596	1,398,358	25.612



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION  
SUMMARY OF STRUCTURES BY TYPE  
DURING CALENDAR YEAR 1970  
ALL SYSTEMS

TABLE 6D

MAY

12, 1971

BRIDGE TYPE	CODE	NO. OF STRUCTURES	SQ. FT. STRUCTURES	TOTAL COST	COST / SQ. FOOT
CONC. SLAB	X220	16	50,532	762,618	15.091
COMP. S/C GIRD.	X071	3	43,540	1,188,684	27.300
	X771	5	65,110	1,380,076	21.196
CONC. PRESTR. GIRD.	X061	38	218,100	3,438,523	15.765
	X181	6	52,612	814,011	15.471
	X281	21	134,567	1,767,548	13.135
	X781	5	54,280	798,529	14.711
		94	618,741	10,149,989	16.404





STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1970

TABLE 7A  
SYSTEM - INTERSTATE

MAY

12, 1971

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001--0049	.000		
0050--0099	.000		
0100--0199	.000		
0200--0299	.000		
0300--0399	.000		
0400--0499	.000		
0500--0999	5.538	\$ 1,006,331	\$ 181,713
1000--1499	.000		
1500--1999	31.180	\$ 14,798,805	\$ 474,624
2000--2999	17.637	\$ 7,873,258	\$ 446,405
3000--4999	.000		
5000--OVER	.000		
TOTAL	54.355	\$ 23,678,394	\$ 435,624



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1970

TABLE 7B

SYSTEM - PRIMARY I

MAY

12, 1971

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	.000		
0100-0199	.378	\$ 147,862	\$ 391,169
0200-0299	.000		
0300-0399	2.992	\$ 674,965	\$ 225,589
0400-0499	.000		
0500-0999	16.900	\$ 2,061,582	\$ 157,490
1000-1499	9.653	\$ 1,073,255	\$ 111,183
1500-1999	.000		
2000-2999	.466	\$ 182,958	\$ 392,613
3000-4999	.000		
5000-OVER	1.168	\$ 547,015	\$ 468,334
TOTAL	31.557	\$ 5,287,637	\$ 167,558



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF ROADWAY MILEAGE AWARDED  
BY AVERAGE DAILY TRAFFIC  
(NEW OR RECONSTRUCTED ROADWAY ONLY)  
DURING CALENDAR YEAR 1970

TABLE 7D  
SYSTEM - SECONDARY

MAY

12, 1971

AVERAGE DAILY TRAFFIC	MILEAGE	COST	COST PER MILE
0001-0049	.000		
0050-0099	28.756	\$ 2,392,080	\$ 83,185
0100-0199	24.105	\$ 1,707,071	\$ 70,818
0200-0299	6.581	\$ 809,107	\$ 122,945
0300-0399	.000		
0400-0499	.000		
0500-0999	2.130	\$ 656,611	\$ 308,268
1000-1499	.000		
1500-1999	.000		
2000-2999	.000		
3000-4999	.260	\$ 52,731	\$ 202,811
5000-OVER	.000		
TOTAL	61.832	\$ 5,617,600	\$ 90,852



STATE HIGHWAY COMMISSION OF MONTANA  
PLANNING SURVEY SECTION

SUMMARY OF CONTRACTED AND  
NON-CONTRACTED COSTS BY SYSTEM  
DURING CALENDAR YEAR 1970

TABLE 8

MAY 12, 1971

SYSTEM	CONTRACTED COST	NON CONTRACTED COST	TOTAL
INTERSTATE	\$ 51,341,315	\$ 5,629,971	\$ 56,971,286
PRIMARY I	\$ 10,049,915	\$ 1,069,377	\$ 11,119,292
SECONDARY	\$ 10,225,542	\$ 1,109,913	\$ 11,335,455
OTHER	\$ 65,747	\$ 7,123	\$ 72,870
TOTAL	\$ 71,682,519	\$ 7,816,384	\$ 79,498,903

